BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: **Estimate for Improvements to Roads, drains and other works at Vinayakanagara Main Road in Ward No. 11(Kuvempunagara), Vidyaranyapura Sub Division.**

								Est Cost Rs.	2000000.00
Sl No	**Description of item**	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
1	KSRRB 300 - Excavation for road, drains and similar works, KSRRB 300-1. Earthwork **excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 **Page No. 142 / Item No. 19.1, PWD SR 2016-17**	Cum							
	Vinayakanagara Main Road		2	82.00	0.90	0.90	132.84		
	Cross Road 1		2	61.00	0.90	0.90	98.82		
	Basic Rate	82.00					**231.66**	199.36	**46185.00**
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 / km= 38.08	38.08							
		188.08							
	Area Weightage @6%	11.28							
	Total	**199.36**							
2	KSRB 4-1.3 : Providing and laying in position **plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation**, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. **Page No.12, Item No. 4.3 of PWD SR 2016-17**	Cum							
	Vinayakanagara Main Road		2	82.00	0.90	0.15	22.14		
	Cross Road 1		2	61.00	0.90	0.15	16.47		
	Basic Rate	4867.00					**38.61**	5159.02	**199190.00**
	Area Weightage @ 6%	292.02							
	Total	**5159.02**							
3	Providing and laying **cement concrete** using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete **(RMC) M 20** for R.C.C works laid in 15 cms thick layers and well compacted vibrating, curing, **for raft foundation column footing, main and secondary beams** with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) **Page No. 18, Item No. 4.48, PWD SR 2016-17**	Cum							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Bottom Concrete								
	Vinayakanagara Main Road		2	82.00	0.90	0.15	22.14		
	Cross Road 1		2	61.00	0.90	0.15	16.47		
	Side Wall								
	Vinayakanagara Main Road		4	82.00	0.15	0.60	29.52		
	Cross Road 1		4	61.00	0.15	0.60	21.96		
	Basic Rate	5879.00					**90.09**	6231.74	**561417.00**
	Area Weightage @ 6%	352.74							
	Total	**6231.74**							
4	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting, propping** etc., and removal of form work for **vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 **Page No. 15 / It No. 4.31 PWD SR 2016-17**	Sqm							
	Vinayakanagara Main Road		2x4	82.00		0.60	393.60		
	Cross Road 1		2x4	61.00		0.60	292.80		
	Basic Rate	293.00					**686.40**	310.58	**213182.00**
	Area Weightage @ 6%	17.58							
	Total	**310.58**							
5	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 - **TMT bars Fe 500 Page No. 17 / Item No. 4.46.2, PWD SR 2016-17**	Tonne							
				90.09	0.060	T/cum	**5.41**	64243.42	**347261.00**
	Basic Rate	60607.00							
	Area Weightage @ 6%	3636.42							
	Total	**64243.42**							
6	Providing **precast slab of 100 mm thick** including cost of all materials, labour, curing, transportation, loading unloading, etc., complete as per the direction of engineer in charge- Data rate	Sqm							
	RCC Drain covering slabs		273	0.60	0.90		147.42		
			184	0.60	0.90		99.36		
							246.78	1760.00	**434333.00**
	Sub Total								**1801568.00**

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
KRIDL Charges @ 10%								180157.00
Labour Cess @ 1%								18016.00
Add for unforseen and rounding off	L/S							259.00
							Total	2000000.00
Rupees Twenty Lakhs Only								

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per P.W.D S.R of 2016-17.
3 This work included under 2017-18 24.10% Grant.
4 The provisions were made in this estimate are necessary and adequate.
5 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

ADMINISTRATIVE APPROVAL

Accorded For Rs. Twenty lakhs only

Head of A/c. P-1878

Div. Ref. No. 86/17-18 Date. 14/12/17

AE EE(BTP) 14/12

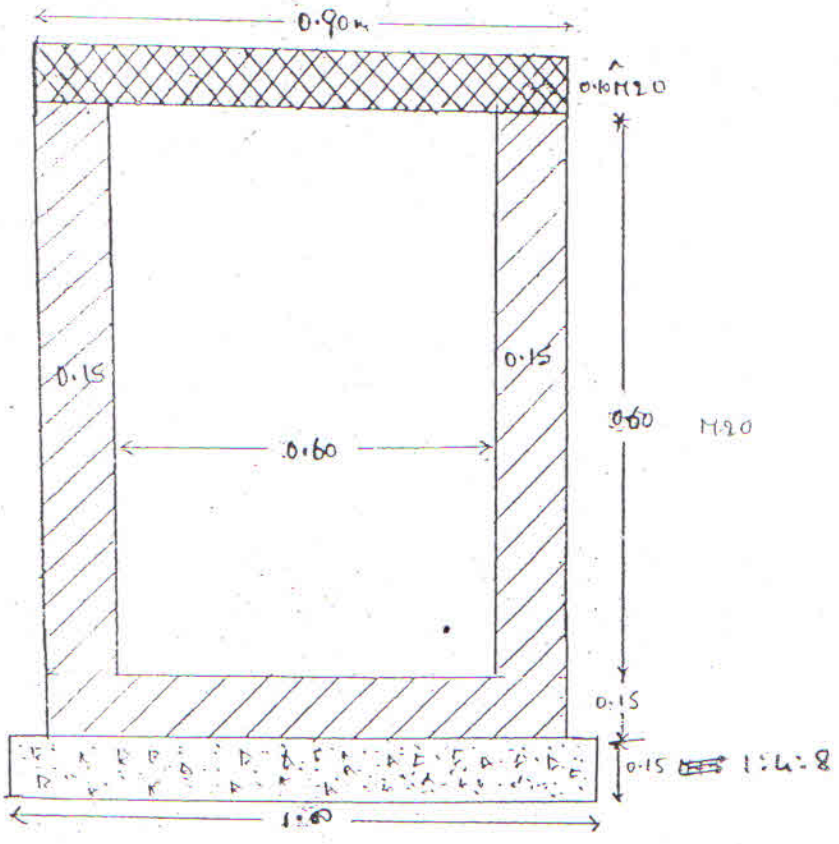
TECHNICAL SANCTION

Accorded For Rs. Twenty lakhs only

Head of A/c. P-1878

Div. Ref. No. 41/17-18 Date. 14/12/17

AE EE(BTP) 14/12



CROSS SECTION OF CC DRAIN